CLAIMS:

1.   A method for manufacturing an electronic circuit ar-
rangement in a motor vehicle fuel tank by arranging one or
more electronic modules on a substrate, and fixating said
substrate with respect to a fuel tank wall,
        said method being characterized by encapsulating said
one or more electronic modules against said fuel by a cap
that connects to said substrate whilst forming an encapsu-
lated space that is separated from any fuel or vapour outside
said encapsulated space.

2.   A method as claimed in Claim 1, being characterized in
that said cap connects to said substrate by soldering.

3.   An electronic circuit arrangement for measuring a fuel
level in a motor vehicle fuel tank, comprising one or more
electronic modules that are arranged on a substrate, which
substrate is suitable for fixating with respect to a fuel
tank wall,
        said arrangement being characterized by comprising said
one or more electronic modules protected against said fuel by
an encapsulating cap that connects to said substrate whilst
forming an encapsulated space that comprises said one or more
electronic modules and that is separated from any fuel or va-
pour outside said encapsulated space.

4.   An electronic circuit arrangement as claimed in Claim 3,
being characterized in that said cap connects to said sub-
strate by soldering.

5.   An electronic circuit arrangement as claimed in Claim 3,
being characterized in that said substrate is a ceramic sub-
strate.

6.   An electronic circuit arrangement as claimed in Claim 3,
being characterized in that said one or more electronic mod-
ules comprise a magnetically driven circuit or an ultrasound
driven circuit for effecting said measuring.

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7.   A motor vehicle fuel tank comprising an electronic cir-
cuit arrangement as claimed in claim 3.

8.   A motor vehicle fuel tank as claimed in Claim 7, being
10   characterized in that said substrate comprises one or more
electrical through-connections to an outside of said fuel
tank.

9.   A motor vehicle comprising a fuel tank as claimed in
15   Claim 7.